

ABSTRACT OF THE DISCLOSURE

A thermophotovoltaic generator apparatus has: a burner that is supplied with a fuel and an air, and burns the fuel; an emitter heated by combustion heat produced by the burner; a photoelectric conversion cell that converts radiant light from the emitter into electric power; and a cell holder portion that holds the photoelectric conversion cell. A cooling device is provided for causing a cooling liquid to receive heat from the photoelectric conversion cell by contacting the cooling liquid and a back surface of the cell holder portion with each other. A surface of the cell holder portion that contacts the cooling liquid is a non-horizontal surface. The apparatus employs at least two kinds of cooling liquids.